AMERICAN / MECHANICS' MAGAZINE, Museum, Register, Journal and Gazette.

Vol. II -No. 45.] SATURDAY, FEB. 11, 1826. FOUR DOLLS. PER AN.

MOTION ON BAILWAYS.

Sin,-Having read a pamablet by the editor of the Scotsman, in which he sets forth a most extraordinary doctrine respecting accelerating forces, and their effects upon a wagon on a railway, permit me, through your useful miscellany, to state my opinion

upon the subject.

Suppose a wagon to be so constructed as to be impelled by a wheel within it, somewhat like a tread mill, and upon this wheel a man were to be placed to give motion to it; suppose the weight of the man's body to be two hundred pounds, and that the weight of one hundred pounds were sufficient to put it in motion; it is evident that there would be a surplus, or disposable power, of one hundred pounds to accelerate the machine; therefore, according to the Scotsman, the motion could be increased in time, "beyond any assignable limit."

This I do not deny, providing that the man could increase his speed in the same ratio, without increasing his labour; but without this the motion would be uniform, and commensurate with the utmost speed the man could

move at in giving it motion.

Now, according to what the Scotsman holds, the man's weigh would be the power, which only he takes into the calculation, without considering the speed at which he would be obliged to travel, to communicate a given motion to the machine. He supposes the power the same at every rate of motion which, at a superficial view, it appears to be, as the man's weight is the same, at whatever rate he moves: but it is clear that his labour would be doubled, by walking twice as fast, to communicate a double motion to the machine, which is the same as a double power.

My view of the subject is this, that the man being able, with the half of

chine, he has a store of power in the other half to give it what velocity he pleases, or, to speak more correctly, to give it what velocity he can keep pace with. Suppose that, at first, he gives it a velocity of two miles ar hour, and the wheel upon which he travels to make the same number of revolutions as the wheels upon the rail road, and of equal diameter, it is evident that he would travel at the rate of two miles an hour; it is also evident that he must travel at the same rate; therefore his exertions are doubled, or the power expended (though in the same space of time) doubled-To suppose otherwise, would be to suppose an effect would be produced without a cause.

AEROLITE.

At a sitting of the Royal Academy of sciences in Paris, M. Humboldt presented to the Academy a fragment of a mass of meteoric iron, which was found in Columbia, at a short distance from Santa Fe de Bogota, near the summit of a mountain. The entire mass weighed 3500 pounds, and required great labour to remove it to the forge of a smith, who bought it for about five pounds, and who began by smelting a part of it with the intention of employing it for the use of Having, however, found his trade. it too brittle for his purposes, he gave up the idea of working it, and even concealed the remainder of it through a fear lest his credit might be injured if it were known he employed such an inferior article. Fortunately an eniment naturalist, M. Humboldt's correspondent, having accidentally learned the secret, obtained the mass of iron and analysed a part of it. The result of this analysis, by proving the existence of a certain quantity of nickhis weight, to give motion to the ma- al midgled with the ore, has put the science.

SINGLE-WHEEL CLOCK.

Sm,-In your valuable Magazine, Number 41, page 234 there is a description of a Single-Wheel Clock, an article I have long desired to be in possession, of but have two great objections to the one therein described. First because it only shows the hours; and, secondly, becase a friend very same kind, and would never keep and appear as if repainted. time within one hour and a half in twelve hours; but I am happy to say, Sir, that I am certain of having my desires gratified, as I have, through the medium of a friend, been favoured with a sight of one newly invented riage, which has been captured in the which shows the hours and minutes, and can also be made to show the se-conds: and I have no doubt that these clocks will keep the most accu-There is something perate time. culiarly interesting in this new invention; first, the neatness and elegance with which they may be made; secondly, the contrivance adopted for distributing the power equally; thirdly, the singular action applied to the dial-work, to keep the hands going correctly; lastly, that any person can take them to pieces, and put them together again in a few minutes; in short, Sir, I am free to confess, that I have not seen any thing that has gratified me more for some time past. But I must not be too liberal in giving a description as I am informed by the hibit it for public inspection.

Your obedient servant, S. T.

PREPARING DRAWING PAPER.

quickly in a glazed earthen vessel, den and unknown to us. wooden spatula to free it from lumps. elephants.

aerial origin of this mass beyond a There must be sufficient quantity of doubt.—The aerolite of which M. water to give to this diluted gum the Humboldt has presented a fragment consistence of a jelly. Paper, and to the academy, is one of the most some sorts of stuffs, upon which, if curious mentioned in the history of this composition be smoothly applied with a pencil, or a brush, and dried before a gentle fire, will receive either water or oil colours; in using water colours, they must be mixed with a solution of the above gum. This cloth or paper, so prepared, will take any colour except ink. When it is intended to retouch any particular part of the drawing, it should be washed with a sponge, or clean linen, or a pencil (containing some of the hours; and, secondly, becase a friend above mentioned liquid;) if the part of mine in the country had one of the is only small, it will then rise quickly

BUBMESE IMPERIAL STATE CARRIAGE.

The Burrnese State Imperial Carpresent sanguinary Indian war, has reached this country, and is now preparing for public exhibition. It is said to be, without exception, one of the most singular and splendid works of art that can possibly be conceived, presenting one entire blaze of gold, silver, and precious stone; of the latter the number must amount to many thousands, comprehending diamonds, rubies, sapphires (white and blue,) emeralds, amethysts, garnets, topas, cat eyes, crystals, &c. The carving is of a very superior description, the form and construction of the vehicle extraordinary, and the general taste displayed throughout the whole design is at once so grand and imposing, yet at the same time so chaste and refined, that we are told it may defy all inventor, that he intends, at the re-rivaly even from European workman quest of several of his friends, to ex-ship. The warlike power and resources of this surprising people at present exciting universal astonishment and attention: this new object attests the fact that, in taste for design, and skill in execution of works of art, Reduce to a powder, and dissolve their talents have been equally hidcontaining cold waier, some gum ad-riage stands between twenty and gagant, having been well worked with thirty feet in height, and is drawn by

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IN A FEW DAYS WILL BI P BLISHED.

THE

FRANKLIN JOYRNAE.

AND

AMERICAN MECHANICS MAGAZINE.

DEVOTED TO THE MECHANIC ART INTERME

IMPROVEMENTS AND GENERAL STENCES

Under the patronage of the Franklin Institute of the tate of chasylvani.

EDITED BY DR. THOMAS P

PROPESSOR OF MECHANICS IN THE IN

ADDRESS.

The prospectus of the 'Franklin Journal' has been to such months before the public at the time it was issued the Editor reliation a distantant of the United States, and was engaged in a persist before the distance of the Property of the such that the commence of the property of the such that the

It was at lest proposed to publish a single sheet every we ke a had annot of the "Blechanics "agazine," and other similar work publish in London; but the Editor has upon mature considers two deen direct publish in london; but the Editor has upon mature considers two deen direct publish the reasons which have weighed with him in making this alteration, will be attisfactory to his subscribers generally. He is un villing that the Journal should be a more book of recipes and notices, "a tring of shrels and published be a more book of recipes and notices, "a tring of shrels and published artisans and manufacturers of our country. Every nutrope villing that has a variety of processes in the mechanical and clymical arts; but it is needed also to insert articles of general interest, and of greater tenth than would be found convenient on a single sheet: it is do designed to mbrace a greater variety of topich if an was at first contemplated, and in greral to devote a part of every number, to each of the lead any subjects moded in the work.

Under the following heads will be introduced a great variety of latter, interesting to the arrival and to the man of general cading.

1st. The connections of the Franklin Institute, at 1 of other simil post-tichment.—2nd Mechanics a Natural Philosophy—3d Abenistry particularly in its application to be arts.—4th. American Insufances.—5th Institute in the American Insufances.—5th Institute in the American Insufances.—5th Institute Insufances.—5th American Insufances.—5th Insufances.—5th Architecture.—1

13th. Husbandry and Rural adirs, particularly as regards the implements used, and the production of sit, wool, cotton, dye-stuffs, and other articles employed in manifactures.—4th Mechanical Jurisprudence.—15th. Foneign Journals, inventions, disoveries, and patents.—16th Notices and Reviews of publications relating to the Arts and Manufactures.—17th Miscella-

neous articles, emsisting of reipes, processes, &c.

It will readily be perceived that a number of subjects are mentioned, with which the Edior cannot petend to be familiarly acquainted; he has not however "recloned withou his host," as he is assured of the aid of gentlemen, whose staions and taints are a sufficient pledge for the able manner in which they vill fulfil the engagements. All the articles of general interest, emanating from the Society for the encouragement of Internal Improvements," vill pass though the hands of the Editor, and will occupy a portion of ever number. The journals of our own country, devoted to science and the nechanic zts, and those of England, France, and Germany, will be carefully examind, and their most useful materials employed; when not written is a style intiligible to the generality of readers, they will be in this respect litered, an when unneccessarily prolix, abridged.

Gentleme who furnsh communications for the Franklin Journal, are requested always to keepin view, that its main object is to diffuse information among arisans and manufacturers; and it is therefore necessary to write in a style assamblar, an as little technical as the nature of the subject will admit. The Edtor wi claim and exercise the right of acting according to his own adgreent repecting every article communicated for publication; and when the authors unknown, he will either insert, reject, alter or abridge, as he my deep bes. He carnestly solicits the aid of intelligent mechanics and manufacturers, and assures them that although they may not always be as ready with the pin as with the implements of their respective trades, their offering will be aceptable, and that the labour of revision, when requisite,

will be herfully erformed.

The gelf secrits in arts and trades has nearly passed away; in these pursuit, awell s in that of commerce, liberal views are generally entertained and free and open intercourse is acknowledged to be the best policy. The ourns will be a ready vehicle for enquiries and replies upon all subjects whin is purview: and will enable the artisans and others, to obtain its province of the province of the

Paentees with wish to make their inventions known through the medium of the Journal, will be expected in all instances to furnish the plates or cuts necessary for that purpose; and must submit to a free, but liberal examina-

tion into the originality and merits of their invention.

The Editorwill willingly open his work to the discussion of every subject upon which it treats; in doing this he will carefully avoid appearing as a partisan but will act as moderator so far as to prevent his pages from being sullied y malevolence, or offensive personalities.

**CODITIONS:—The Journal will be published monthly, each number will edain sixty-four pagees, octavo, forming, annually, two volumes of nearly our hundred pages each. It will be printed on good paper, with well executed engravings on wood, and occasional y on copper.

Signification, \$4 per anum, payable on the completion of the first volume. Single number of cents each. Subscribers in the city will be served by a carrier; those to distance, may receive it by mail, or in any way they may direct.

Advertiseme relating to the Mechanic Arts, will be inserted on the cores, on the all terms.

all communications must be post paid, and may be addressed to the Edition to Judah Dubern, Agent, No. 103 Chesnut-street Philidelphia

The Editor has made arrangement with the proprieter of the "American Mornaules" Magazine, published in New-York, by which that work is transferred to line. The Franklin Journal will issue in Philidelphia and to New-York on the same day, and the subscribers to the Magazine will be required as served with the Journal. Communications will be received by S. C. Schenk, 252 Broadway; who will immediately transmit them to the Editor-

At a meeting of the Franklin Institute held January 19th, 1826 it was on

Resolved, "That the neeting view with pleasure, the prospect of the Franklin Journal being issued by so able an Editor as the professor of Mechanics in the institute, and recommend it to the support of their fellow citizens."

6. V. MERRICK, Secretary

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may